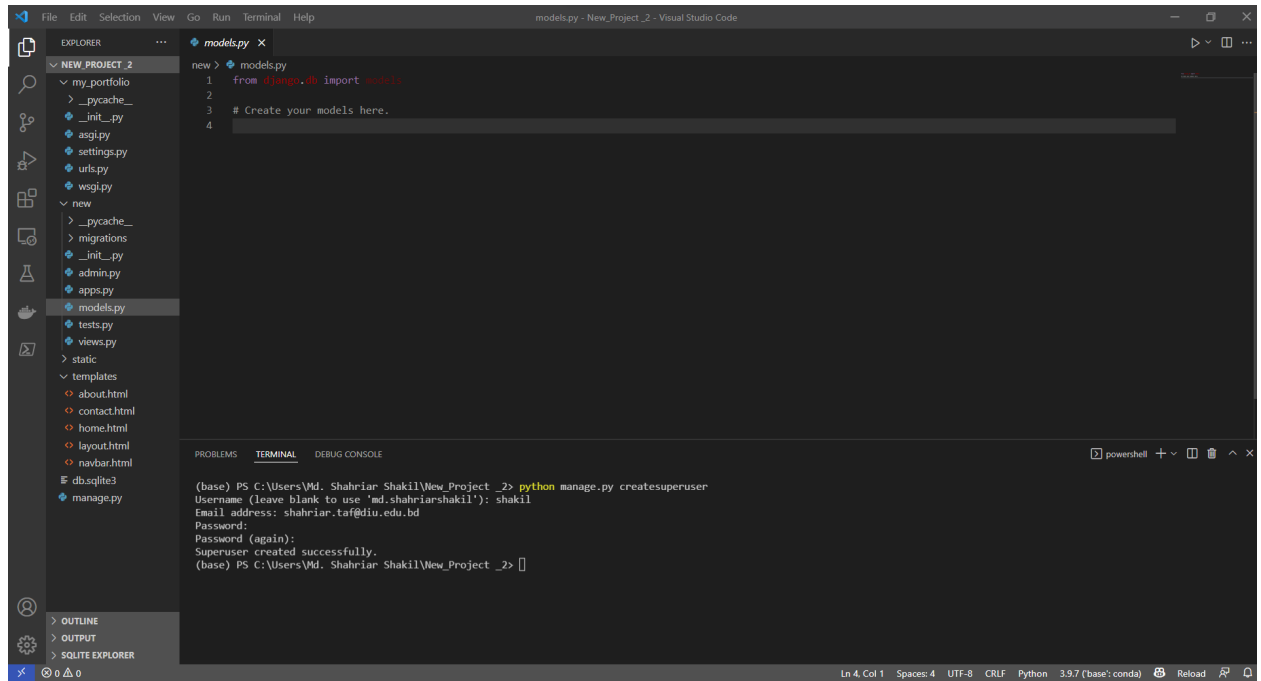


Lab-5

Model Create, Admin Page, POST Method & Sqlite

- Now we see how we can access the admin page of any Django project-
 - python manage.py createsuperuser
 - Then set username, email & password.

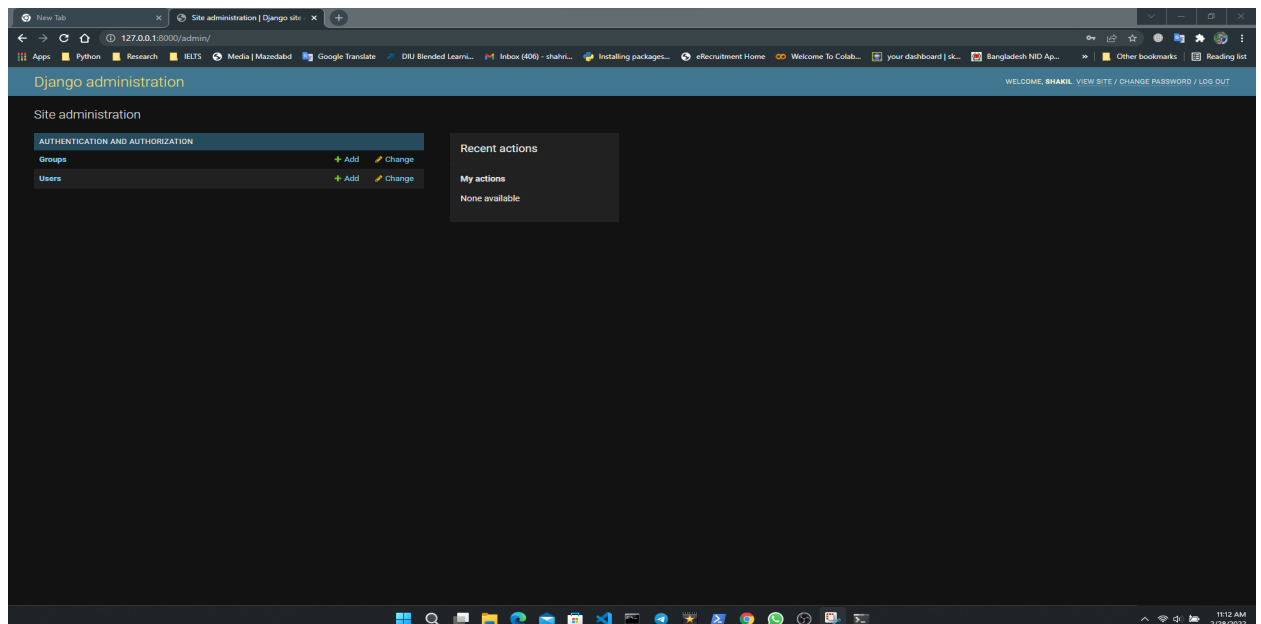


The screenshot shows the Visual Studio Code interface with a Django project named 'NEW_PROJECT_2'. The Explorer sidebar on the left shows the project structure, including 'models.py'. The main editor window shows the content of 'models.py', which is currently empty except for a comment. The Terminal window at the bottom shows the command 'python manage.py createsuperuser' being executed, and the output indicates that a superuser has been created successfully with the username 'shahriar.taf@diu.edu.bd'.

```
new > models.py
1 from django.db import models
2
3 # Create your models here.
4
```

```
(base) PS C:\Users\Wd. Shahriar Shakil\New_Project_2> python manage.py createsuperuser
Username (leave blank to use 'md.shahriarshakil'): shakil
Email address: shahriar.taf@diu.edu.bd
Password:
Password (again):
Superuser created successfully.
(base) PS C:\Users\Wd. Shahriar Shakil\New_Project_2>
```

- Go to <http://127.0.0.1:8000/admin> & log in with your username, password.
- After logging in, we will find like this page-



2. Now we see how we can create a table in the database-

a. Go to our app **new>model.py**

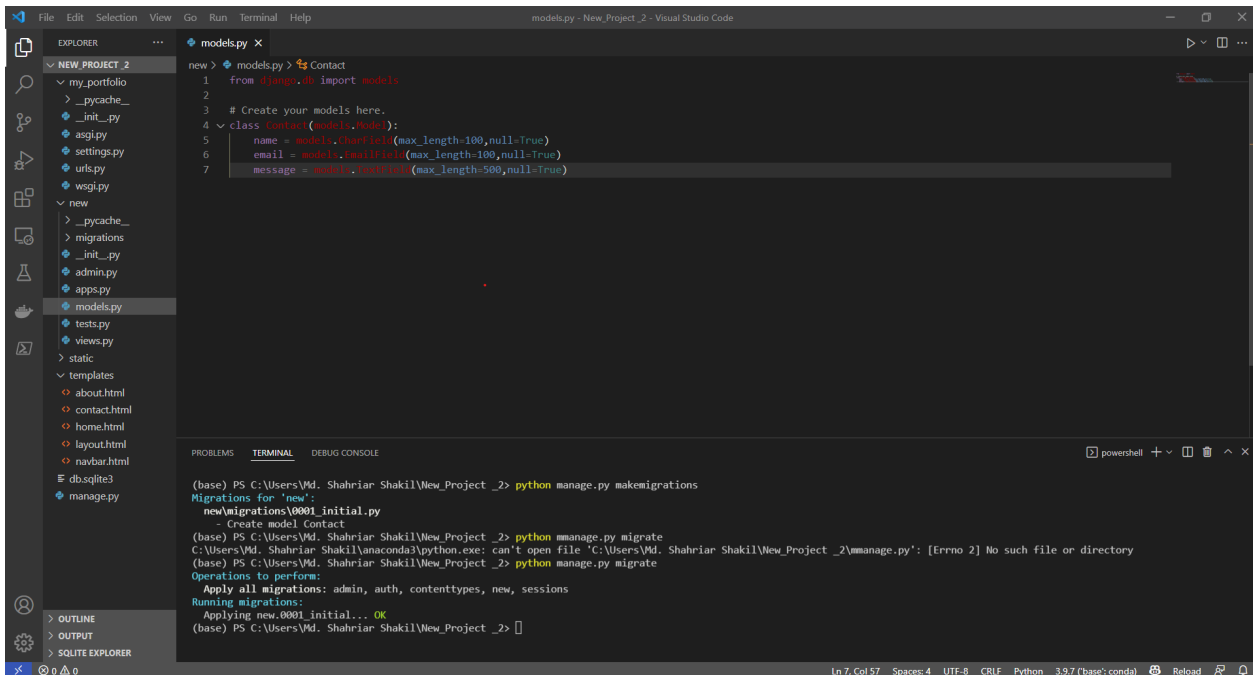
i. Create a class that is the name of the table of our database.

```
class Contact(models.Model):  
    name = models.CharField(max_length=100,null=True)  
    email = models.EmailField(max_length=100,null=True)  
    message = models.TextField(max_length=500,null=True)
```

ii. Here Contact is the table name. And the name, email, & message is the field of our table.

iii. Then in the terminal, we type-

```
python manage.py makemigrations  
python manage.py migrate
```



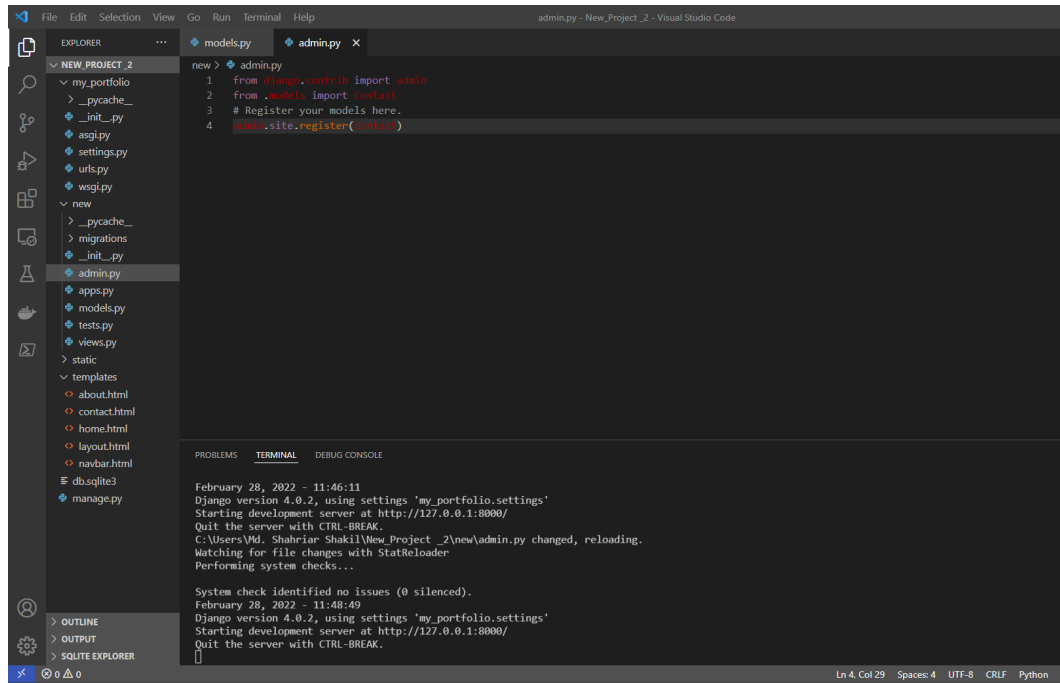
iv. Go to our app **new>admin.py**

1. Import our Contact class

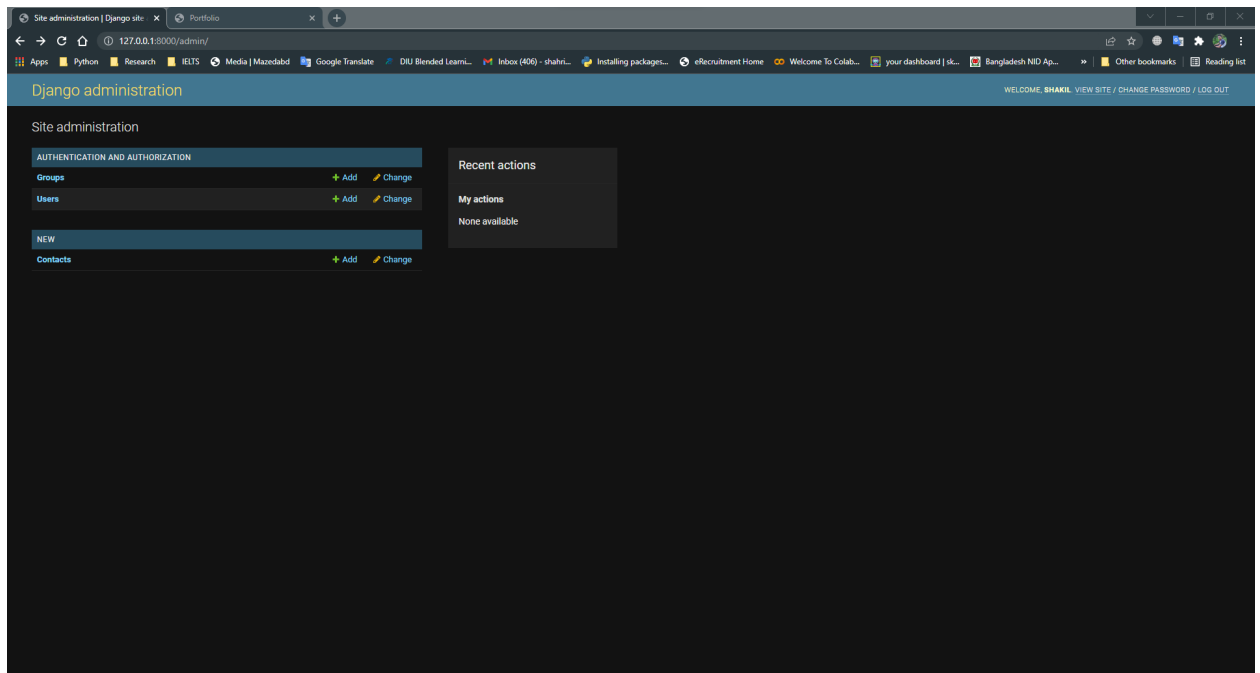
```
from .models import Contact
```

2. Then register our model

```
admin.site.register(Contact)
```



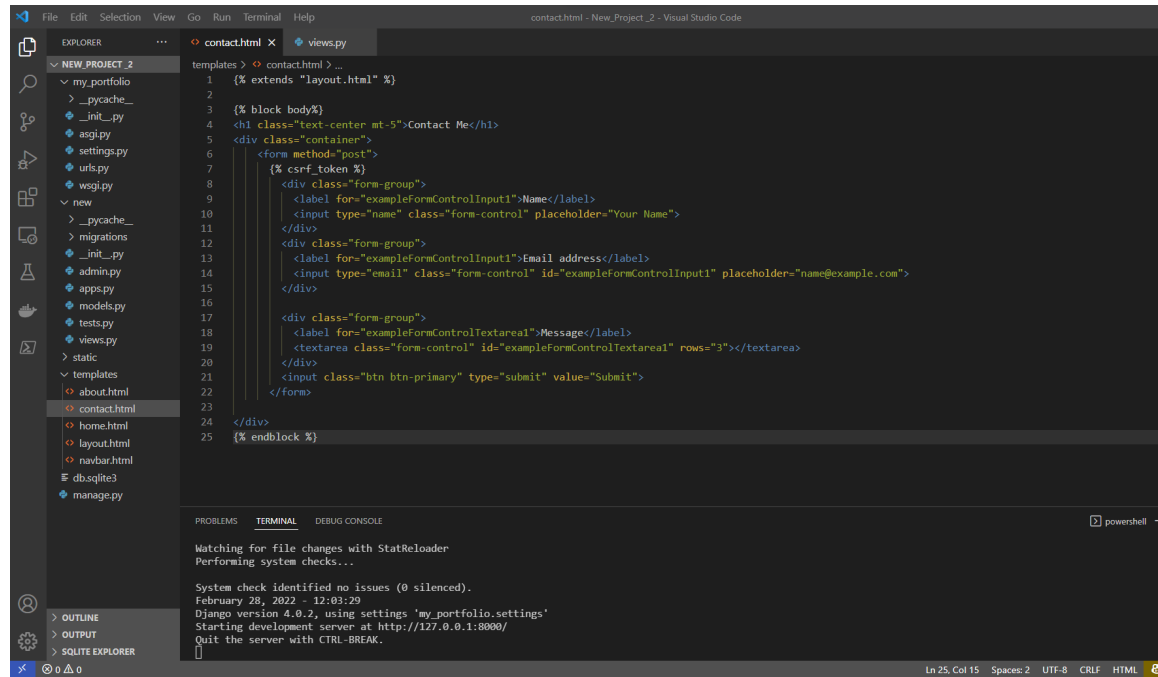
b. Our admin page looks like this-



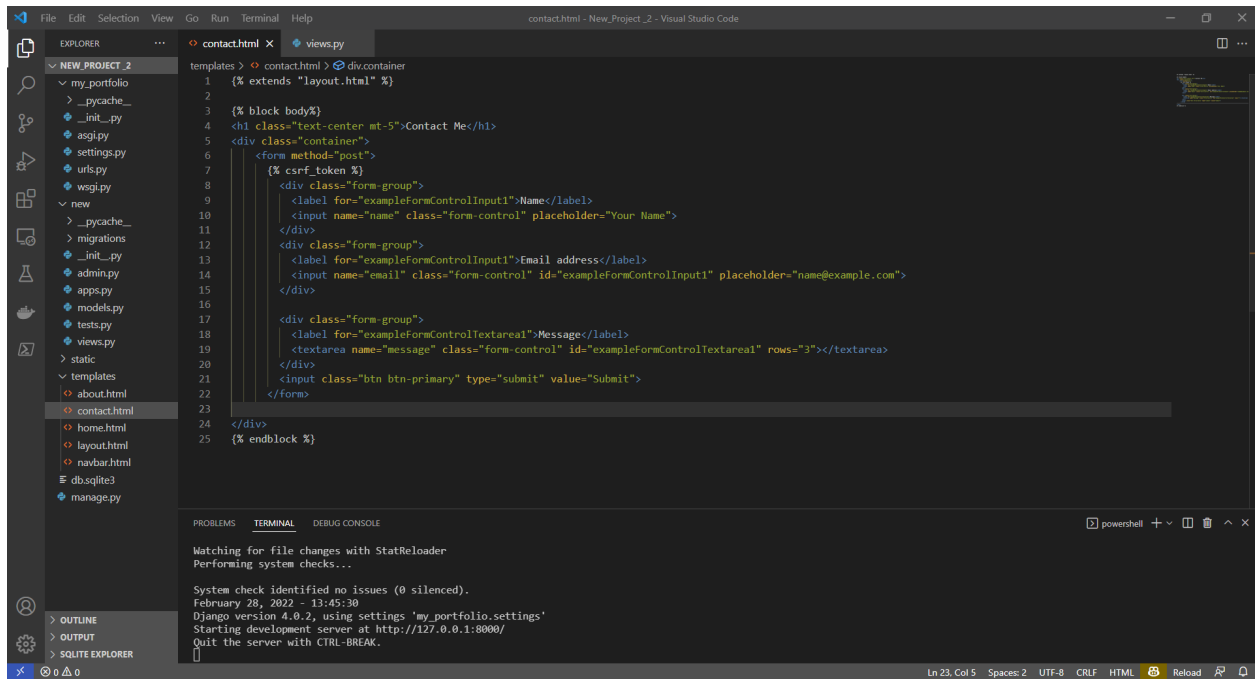
3. Now we save names, emails & messages through contact form into our database.

a. Go to contact.html-

- Inside the form tag add `method="post"`
- Also add `{% csrf_token %}`



b. Change the type into name. Now it looks like-



c. Final code for contact.html replace previous code with this code ([click here](#))

4. Go to **new>views.py**-

a. Import Contact class from models

```
from .models import Contact
```

b. Inside the contact, function paste this code-

```
if request.method == 'POST':
```

```

name = request.POST.get('name')
email = request.POST.get('email')
message = request.POST.get('message')
contact = Contact()
contact.name = name
contact.email = email
contact.message = message
contact.save()
return HttpResponseRedirect('<h1>Thanks for Contract with us</h1>')

```

c. Now it looks like this-

The screenshot shows the Visual Studio Code interface with the Django project structure on the left. The main editor displays the `views.py` file, which contains the following code:

```

1 from django.shortcuts import render
2 from django.http import HttpResponseRedirect
3 from .models import Contact
4 # Create your views here.
5
6 def home(request):
7
8     # return HttpResponseRedirect('<h1>Hello World</h1>')
9     return render(request, 'home.html')
10
11 def about(request):
12     return render(request, 'about.html')
13
14 def contact(request):
15     if request.method == 'POST':
16         name = request.POST.get('name')
17         email = request.POST.get('email')
18         message = request.POST.get('message')
19         contact = Contact()
20         contact.name = name
21         contact.email = email
22         contact.message = message
23         contact.save()
24         return HttpResponseRedirect('<h1>Thanks for Contract with us</h1>')
25     return render(request, 'contact.html')

```

The terminal at the bottom shows the development server running on `http://127.0.0.1:8000/`. It displays the following logs:

```

Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[28/Feb/2022 13:57:22] "GET /contact/? HTTP/1.1" 200 2613
[28/Feb/2022 13:58:06] "POST /contact/? HTTP/1.1" 200 36
[28/Feb/2022 13:58:31] "GET /admin/new/contact/ HTTP/1.1" 200 6430
[28/Feb/2022 13:58:31] "GET /admin/jsi18n/ HTTP/1.1" 200 3343
[28/Feb/2022 13:58:35] "GET /admin/new/contact/2/change/ HTTP/1.1" 200 7042
[28/Feb/2022 13:58:35] "GET /admin/jsi18n/ HTTP/1.1" 200 3343

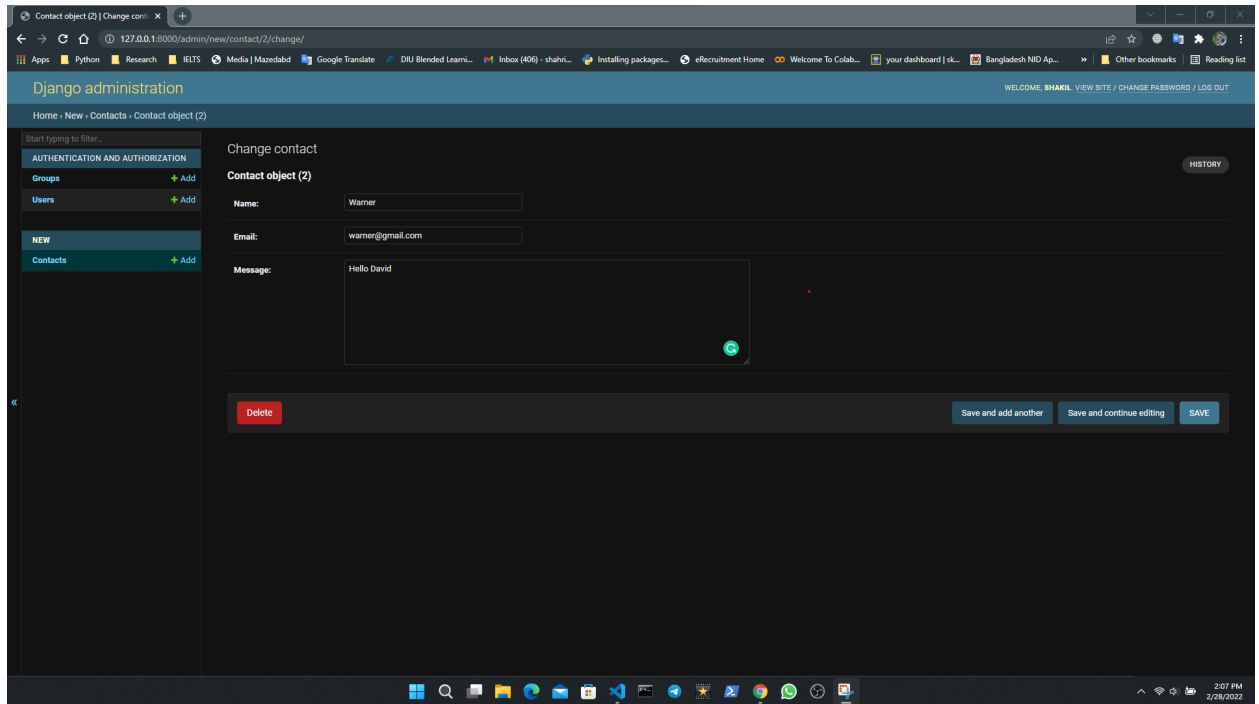
```

5. Great! Now we start the runserver and go to <http://127.0.0.1:8000/contact/> and submit data

The screenshot shows the web browser displaying the contact form at `http://127.0.0.1:8000/contact/`. The form has the following fields and values:

- Name: Warner
- Email address: warner@gmail.com
- Message: Hello David
- Submit button: A blue button labeled "Submit".

The browser's address bar shows the URL `127.0.0.1:8000/contact/`. The page has a navigation bar with links for Home, About, and Contact.



6. If we check admin page we find those data that we submit in contact form.

Congratulations! We successfully save data into the database.
Thanks, everyone